Fig. 1

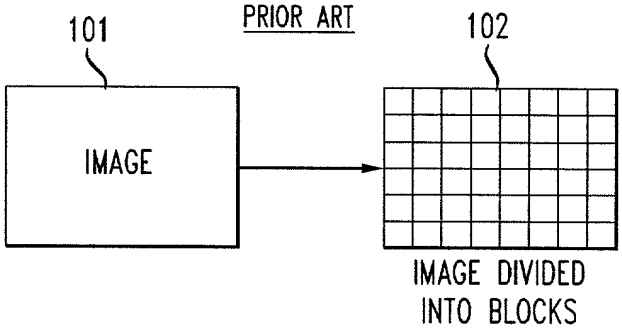
PRIOR ART
101
102
IMAGE
IMAGE DIVIDED
INTO BLOCKS

Fig. 2

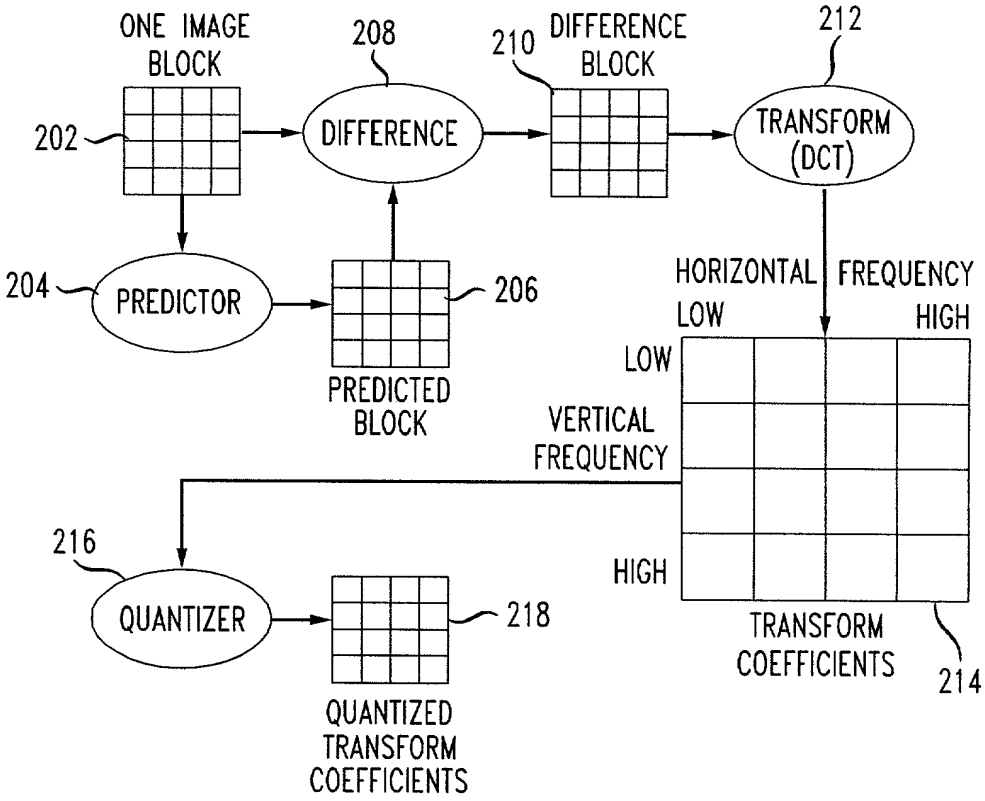
ONE IMAGE
BLOCK
202
208
DIFFERENCE
210
DIFFERENCE
BLOCK
212
TRANSFORM
(DCT)
204
PREDICTOR
206
PREDICTED
BLOCK
HORIZONTAL FREQUENCY
LOW
HIGH
LOW
VERTICAL
FREQUENCY
HIGH
216
QUANTIZER
218
QUANTIZED
TRANSFORM
COEFFICIENTS
TRANSFORM
COEFFICIENTS
214

Fig. 3

PRIOR ART

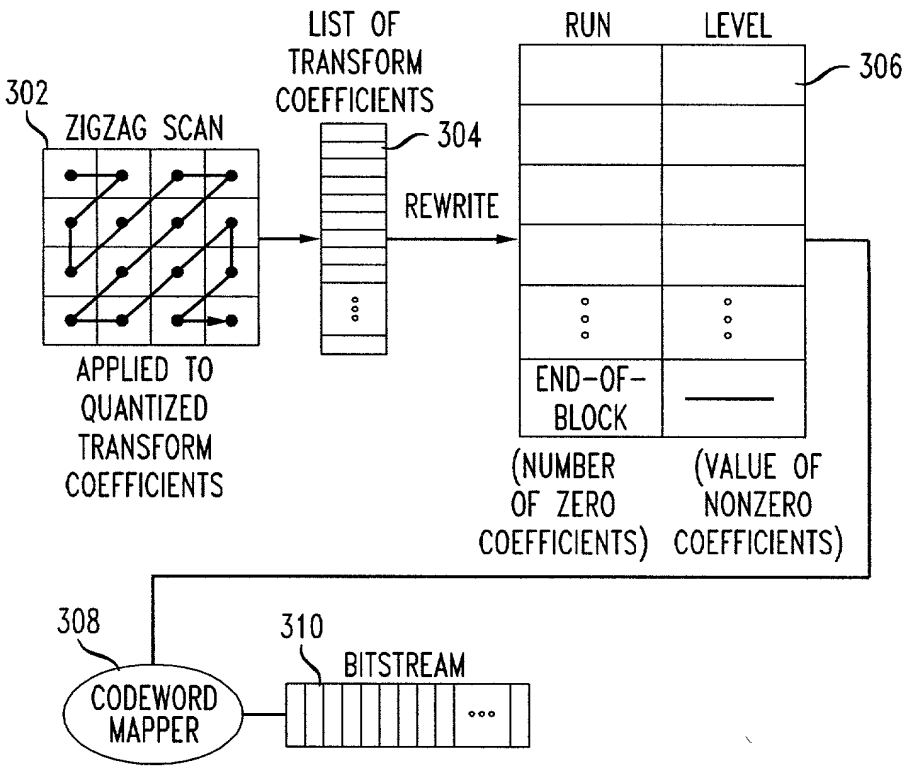

Fig. 4

PRIOR ART

402 RUN, LEVEL	404 CODEWORD
END-OF-BLOCK	0
(0,1)	100
(0,-1)	101
(1,1)	11000
(1,-1)	11001
(0,2)	11010
(0,-2)	11011
(2,1)	1110000
⋮	⋮

408 — 406

Fig. 5

PRIOR ART

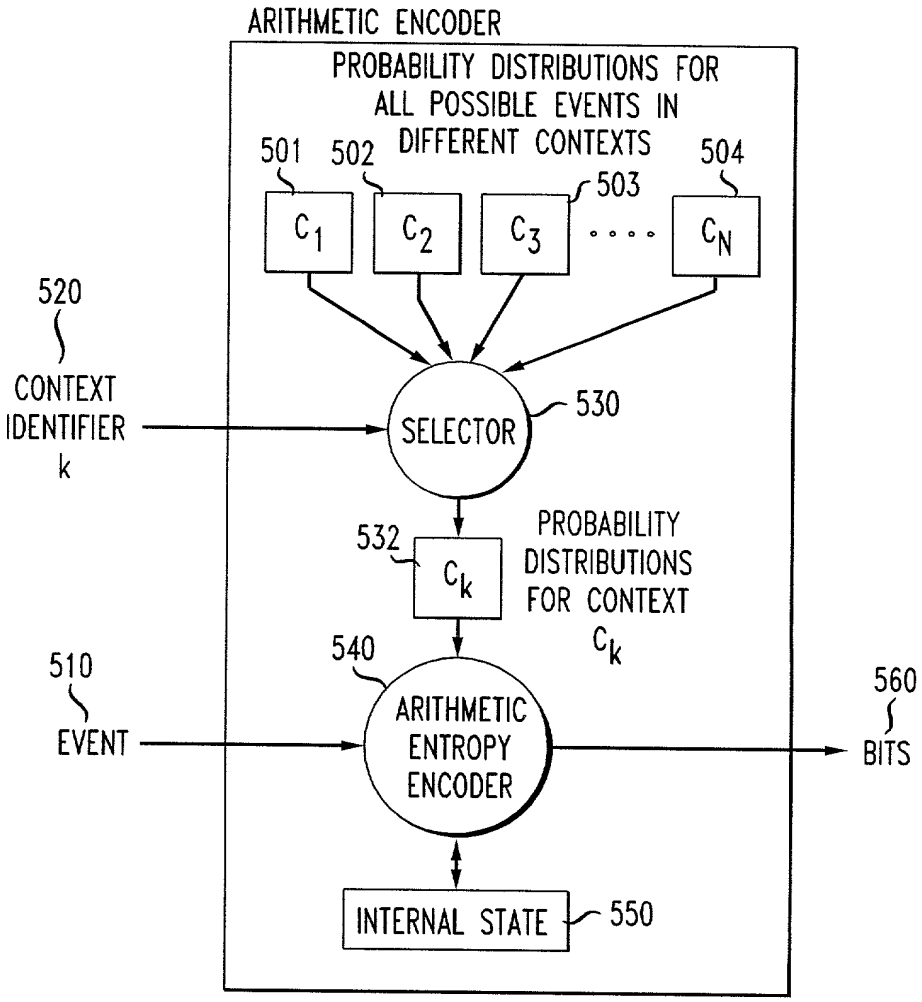

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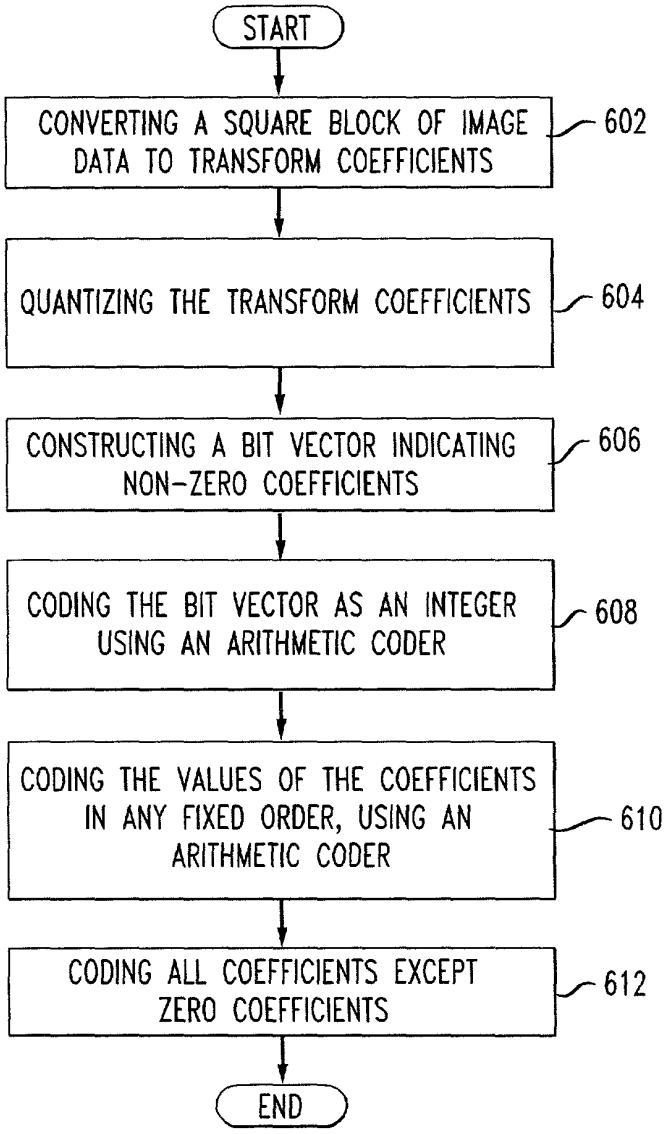
Fig. 6



Attorney Docket

Fig. 7

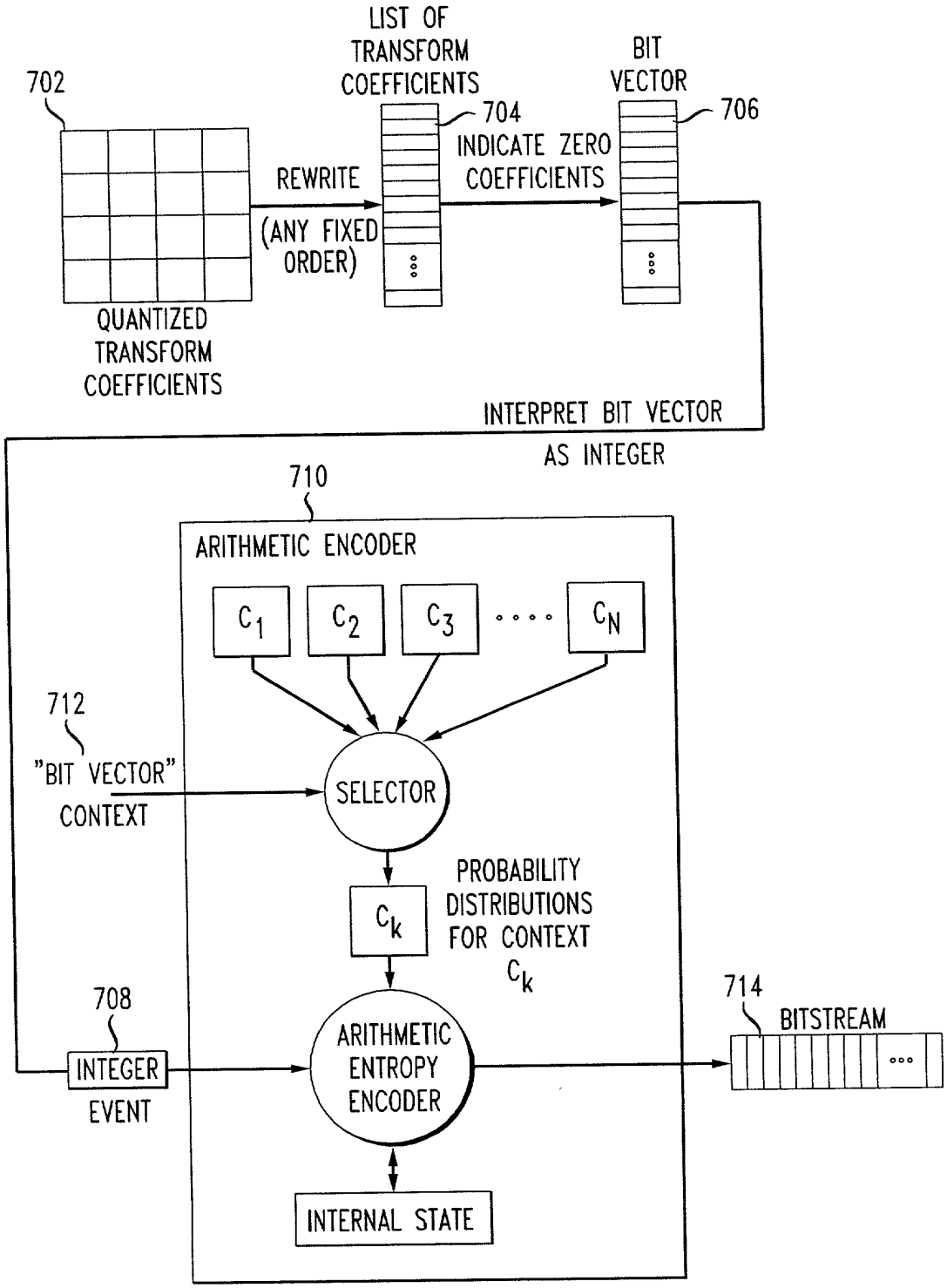

LIST OF TRANSFORM COEFFICIENTS
BIT VECTOR
702
704
706
INDICATE ZERO COEFFICIENTS
REWRITE
(ANY FIXED ORDER)
QUANTIZED TRANSFORM COEFFICIENTS
INTERPRET BIT VECTOR AS INTEGER
710
ARITHMETIC ENCODER
C1
C2
C3
CN
712
"BIT VECTOR" CONTEXT
SELECTOR
Ck
PROBABILITY DISTRIBUTIONS FOR CONTEXT Ck
708
714
BITSTREAM
INTEGER EVENT
ARITHMETIC ENTROPY ENCODER
INTERNAL STATE

Fig. 8

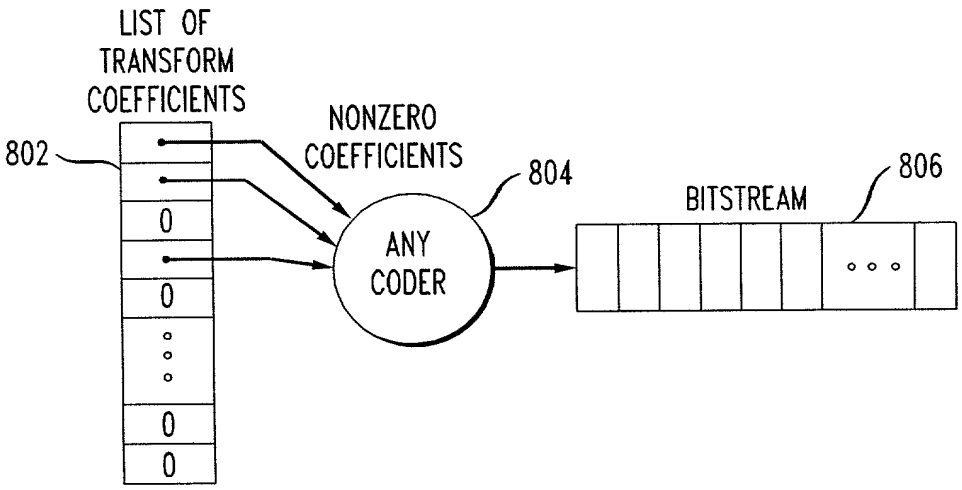
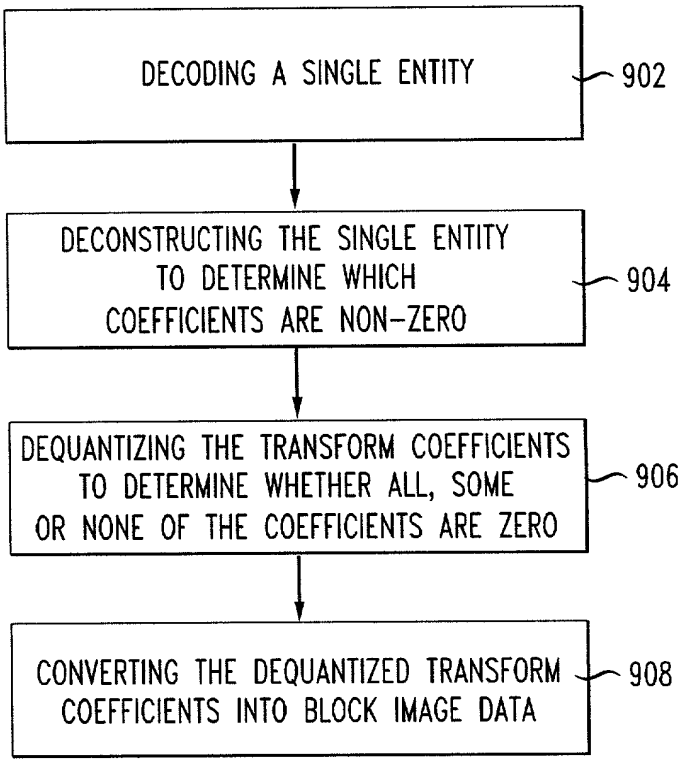

LIST OF TRANSFORM COEFFICIENTS
802
NONZERO COEFFICIENTS
804
ANY CODER
BITSTREAM
806
0
0
0
0

Fig. 9


DECODING A SINGLE ENTITY
902
DECONSTRUCTING THE SINGLE ENTITY TO DETERMINE WHICH COEFFICIENTS ARE NON-ZERO
904
DEQUANTIZING THE TRANSFORM COEFFICIENTS TO DETERMINE WHETHER ALL, SOME OR NONE OF THE COEFFICIENTS ARE ZERO
906
CONVERTING THE DEQUANTIZED TRANSFORM COEFFICIENTS INTO BLOCK IMAGE DATA
908